Center Independent Research & Development: GSFC IRAD

Science Telescope for CubeSat Applications

Completed Technology Project (2015 - 2018)

Project Introduction

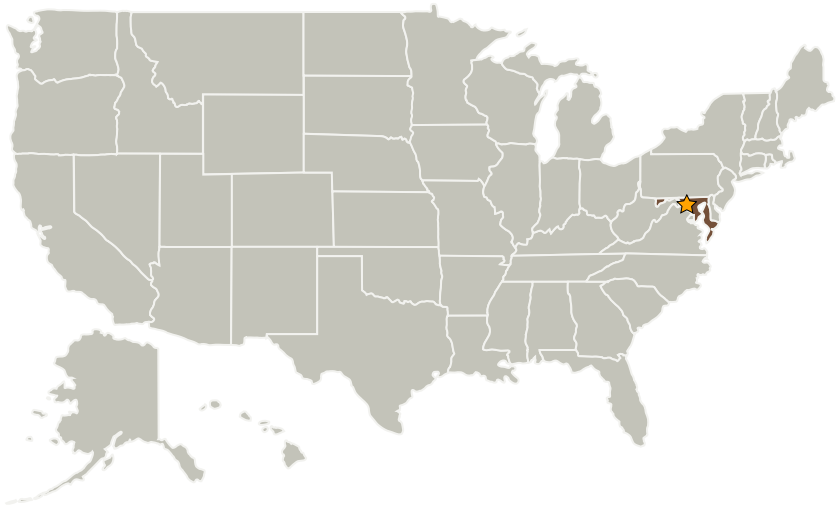
We will design a low-mass, compact telescope with fast, reflective optics and develop an interface to science instruments specifically designed for CubeSat science investigations.

Objectives: The goal of the proposed effort is to develop a "standard" telescope/interface package adaptable to a variety of mini-instruments in a CubeSat configuration.

Anticipated Benefits

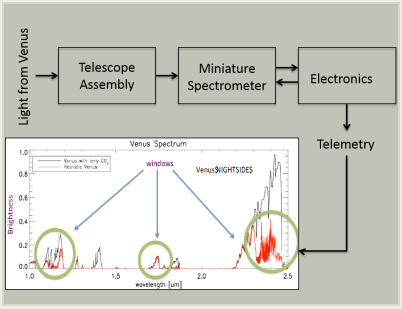
Multiple small and miniature space missions.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland



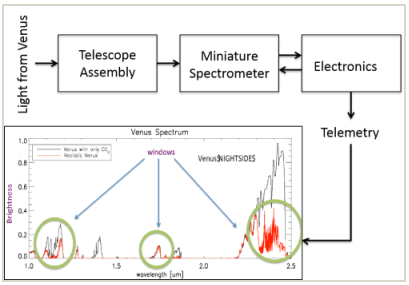
CubeSat Remote Sensing Instrument

Table of Contents

Science Telescope for CubeSat Applications

Completed Technology Project (2015 - 2018)

Images



CubeSat Remote Sensing Instrument
CubeSat Remote Sensing Instrument
(https://techport.nasa.gov/image/20800)

Project Website:

http://sciences.gsfc.nasa.gov/sed/

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:

Peter M Hughes

Project Managers:

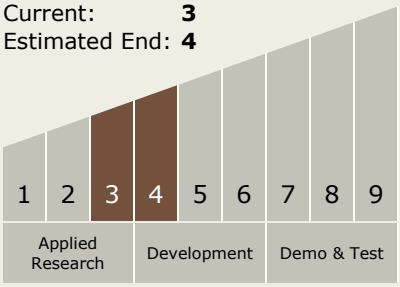
Brook Lakew
Michael J Amato

Principal Investigator:

Shahid Aslam

Technology Maturity (TRL)

Start: **3**
Current: **3**
Estimated End: **4**



Science Telescope for CubeSat Applications

Completed Technology Project (2015 - 2018)

Technology Areas

Primary:

- TX14 Thermal Management Systems
  - TX14.1 Cryogenic Systems
    - TX14.1.3 Thermal Conditioning for Sensors, Instruments, and High Efficiency Electric Motors

Target Destinations

The Moon, Mars, Others Inside the Solar System